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**ABSTRACT**

The present invention provides a process for the preparation of stable and reusable biosensing granules useful in the assessment of biodegradability of effluents, said process comprising developing active aerobic microbial consortia in synthetic medium, separating the active aerobic microbial consortia, immobilising the said microbial consortia using natural polymer to form biosensing granules, dehydrating the immobilised biosensing granules to obtain stable biosensing granules having a moisture content of 5 – 30 %.